TITLE SHEET

ESTIMATED ROADWAY QUANTITIES

TYPICAL SECTIONS

GENERAL NOTES AND SPECIAL NOTES

SHEET NO.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	04-15-04	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL
T-M-2	09-05-04	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-SG-2	07-29-04	LOOP LEAD-INS CONDUIT AND PULL BOXES
T-SG-3	11-11-04	NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A		ALTERNATE DETECTION DETAILS

M

BEGIN PROJECT (CLEVELAND STREET)

## SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE CITY OF MEMPHIS IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN

THE PROPOSAL CON	TRACT
OWNER	CITY OF MEMPHIS
DESIGNER _	AUSTIN CLARK
CHECKED BY _	HARVEY MATHENY, PE
PROJECT NO	PW01206
TDOT PIN NO	112673.00
CONTRACT NO	090102
TOOT CONTACT	NANCY SARTOR

CITY OF MEMPHIS DIVISION OF PUBLIC WORKS BUREAU OF ENGINEERING

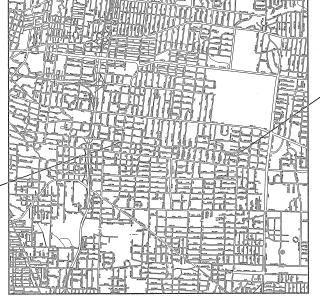
# COUNTY

MADISON AVENUE

FROM: CLEVELAND STREET TO: COOPER STREET

RESURFACING

ARRA GROUP 4 (PART 4 OF 4)



SCALE: 1"= 2000"

LOCALLY MANAGED PROJECT

TENN	YEAR	SHEET NO.	
TENN.	2009	1	
FED. ALD PROJ. NO.	ARRA-STP-M-	9409(149)	
STATE PROJ. NO.	79LPLM	-F3-186	



END PROJECT (COOPER STREET)

UTILITY OWNERS				
UTILITY	UTILITY CONTACT			
ML GW	MEMPHIS LIGHT GAS AND WATER TOM WORD (901)528-4186 220 S. MAIN ST. MEMPHIS, TN. 38101			
SEWER	CITY OF MEMPHIS GARY VADEN (901)576-6725 125 N. MAIN ST. MEMPHIS, TN.38103			
TELEPHONE	AT & T TENNESSEE DON ROE (731)423-5037 315 EAST COLLEGE ST. JACKSON, TN 38301			

PRELIMINARY NOT FOR CONSTRUCTION

TRAFFIC DATA

ADT (2009) 14,589



ARRA GROUP 4 (PART 4 OF 4)

PROJECT LENGTH TOTAL LANE MILES RESURFACED 1.501 MILES 6.6 MILES

CITY ESTIMATED ROADWAY QUANTITIES DESCRIPTION UNIT QUANTITY ITEM NO. 202-03.03 REMOVAL OF ASPHALT PAVEMENT C.Y. 1122 MINERAL AGGREGATE, TYPE B BASE, GRADING D TON 621 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A TON 1690 BITUMINOUS MATERIAL FOR TACK COAT (TC) TON 6 ASPHALT CEMENT (PG64-22) (ACS) GRADING D TON 3800 411-01.10 COLD PLANING BITUMINOUS PAVEMENT TON 6000 701-02.01 CONCRETE HANDICAP RAMP (RETROFIT) SF 5600 SF 508 EACH 200 712-04.01 FLEXIBLE DRUMS (CHANNELIZING) EACH 712-08.03 PLASTIC PAVEMENT MARKING (4" LINE) 4.46 PLASTIC PAVEMENT MARKING (CROSS-WALK) 1560 716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING) S.Y. 919 701 716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE) 716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW) 716-03.01 PLASTIC WORD PAVEMENT MARKING (ONLY) 716-05.01 PAINTED PAVEMENT MARKING (4" LINE) 717-01 MOBILIZATION LS 730-03.21 INSTALL PULL BOX (TYPE B) EACH RISER ASSEMBLY (1") CONDUIT. 1" DIAMETER (PVC) SHIELDED DETECTOR CABLE 730-14.03 4368

## FOOTNOTES

1 TO BE USED IN BREAKOUT SECTION

② INCLUDES 234 TONS FOR SIDE STREETS, DRIVE TURNOUTS AND SPOT LEVELING AS NEEDED

3 SEE SPECIAL PROVISION NO. 407G FOR MATERIAL TRANSFER DEVICE.

4 RETROFIT EXISTING INSTALLATION

5 QUANTITY INCLUDES:

4 15		
2	ROAD WORK NEXT 1.5 MI.	(G20-1)
2	END ROAD WORK	(G20-2A)
2	UNEVEN LANES	(W8-11)
35	ROAD WORK AHEAD	(W2O-1)
1	ROAD WORK 1000 FT.	(W2O-1)
1	ROAD WORK 500 FT.	(W2O-1)
2	ONE LANE ROAD AHEAD	(W20-4)
2	FLAGGER AHEAD	(W20-7a)
2	ERESH OIL	(W21-2)

PRELIMINARY NOT FOR

PROJECT NO.

009 ARRA-STP-M-9409(149) 2

NOT FOR CONSTRUCTION

THIS CONSTRUCTION SIGNING IS TO BE AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

- 6 FOR FINAL PAVEMENT MARKING ONLY.
- 7 FOR TEMPORARY PAVEMENT MARKING ONLY
- 8 SHALL CONFORM TO CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATION 02890

SIGNALIZATION TABULATION							
INTERSECTION	100P WIRE 730-14.03 (LIN FT)	SAW SLOT 730-14.02 (LIN FT)	SHIELDED CABLE 730-14.01 (LIN FT)	CONDUIT 1" 730-12.01 (LIN FT)	INSTALL PULL BOX (TYPE B) 730-03.21	RISER ASSEMBLY 1" 730-11.10	
MADISON @ CLEVELAND	192	48	350	350	1	1	
MADISON @ AVALON	612	306	350	350	1	1	
MADISON @ BELVEDERE	996	448	350	350	1	1	
MADISON @ MCLEAN	1368	504	350	350	1	1	
MADISON @ TUCKER	102	51	350	350	1	1	
MADISON @ COOPER	1368	504	350	350	1	1	
TOTAL	4638	1861	2100	2100	6	6	

(9) SHALL CONFORM TO CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATION 02770 AND 02775

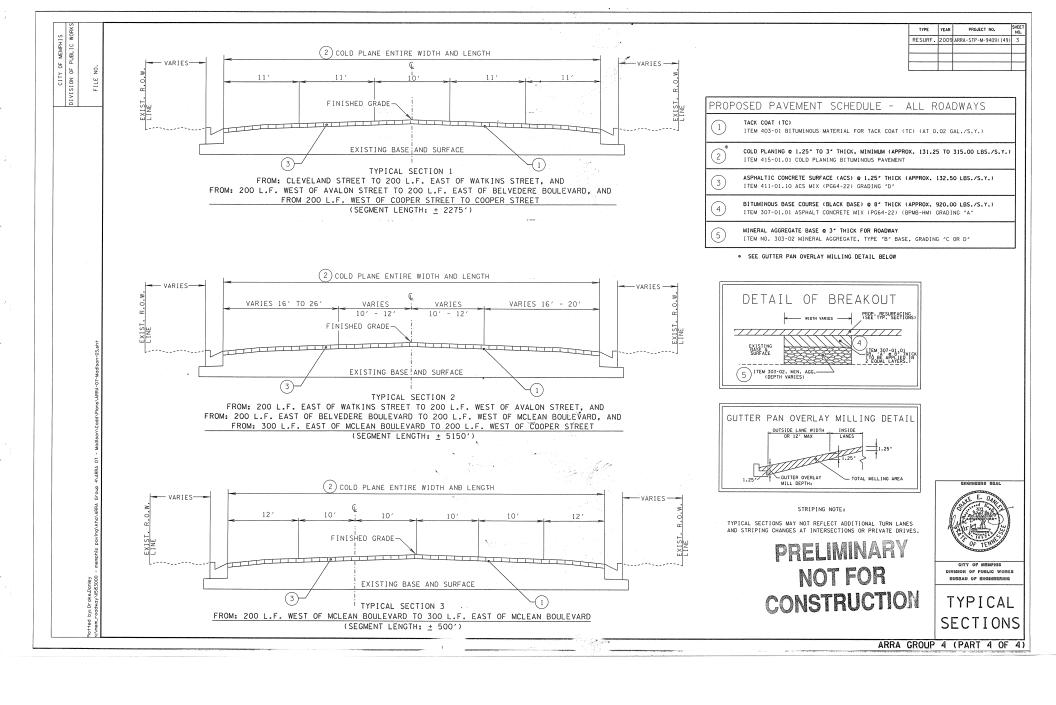
AD	A RAMP I	OCATION	NS	
INTERSECTION	NE QUAD.	SE QUAD.	SW QUAD.	NW QUAD.
MADISON @ WATKINS				1
MADISON @ WILLETT		1	1	
MADISON @ AVALON			1	
MADISON @ EVERGREEN	1	1		1
MADISON @ AUBURNDALE			1	
MADISON @ MCLEAN			1	
MADISON @ BARKSDALE		1	1	
MADÍSON @ TUCKER	1	1	1	1
MADISON @ REMBERT	1	1	1	1
MADISON @ MORRISON	1	1	1	1
MADISON @ FLORENCE	***************************************	1	1	
MADISON @ DIANA		1	1	
MADISON @ COOPER	2	2	2	2
TOTALS	6	10	12	7



CITY OF MEMPHIS
DIVISION OF PUBLIC WORKS
EMPERIO OF EMPIREEMA

ESTIMATED ROADWAY QUANTITIES

ARRA GROUP 4 (PART 4 OF 4)



## GENERAL NOTES

#### GRADING

ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT

- (2) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- UNI ESS OTHERWISE NOTED. ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE PIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH FOUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF
- PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH LITH ITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

#### MISCELLANEOUS

- ALL DETOUR ACCESS SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET
- NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

#### PAVEMENT MARKINGS

## TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS BEFORE DARK HOURS. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01.

#### CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS

#### FULLY COVERED.

- IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT
- A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN. MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL

## SPECIAL NOTES

- (16) ALL STRIPING (PAINT) SHALL BE COMPLETED 24 HOURS AFTER OVERLAY IS COMPLETE. ALL OTHER PLASTIC PAVEMENT MARKINGS SHALL BE COMPLETE WITHIN 14 DAYS.
- THE ASPHALT CONCRETE SURFACE SHALL CONTAIN ALL NEW MATERIALS. USE OF RAP WILL NOT BE PERMITTED FOR SURFACE MIXES. VARIOUS STREETS IN CONTRACT SHALL BE PAVED STARTING AT THE BEGINNING OF THE PROJECT LIST AS PROVIDED IN THE PROPOSAL CONTRACT AND CONTINUE UNTIL ALL FUNDS ARE DEPLETED. IF THE CONTRACT UNDER RUNS, ADDITIONAL PROJECTS WILL BE ADDED TO THE EXISTING
- OVERLAP EXISTING ASPHALT LONGITUDINAL JOINTS A MINIMUM OF 12". MILL ALL BRIDGE APPROACHES EQUAL TO SURFACE COURSE DEPTH
- ADDITIONAL BUSHING AND CONDITIONING REQUIRED OF MILLED AREAS LEFT UNPAVED MORE THAN SEVEN (7) DAYS SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE REQUIRED TO PATCH STREETS AS NEEDED.
- UNLESS OTHERWISE DIRECTED BY ENGINEER, PERMANENT STRIPING SHALL BE REPLACED TO MATCH THE EXISTING STRIPING PRIOR TO.
- UNLESS OTHERWISE DIRECTED BY ENGINEER, PAVING LIMITS AT NON-SIGNALIZED INTERSECTIONS SHOULD EXTEND TO THE END OF RADIUS OF THE SIDE DOAD AT SIGNALIZED INTERSECTIONS. THE PAVING LIMITS SHOULD EXTEND TO 50' BEYOND THE END OF RADIUS TO INCLUDE TRAFFIC SIGNAL DETECTION LOOPS.
- THE CONTRACTOR SHALL PROPERLY ADJUST ALL MANHOLE, ALL UTILITY VALVE STRUCTURES, AND LIKE STRUCTURES TO THE FINISHED GRADE OF THE PAVEMENT. IF EXTENSION RINGS ARE USED, ADJUSTMENT IS TO BE MADE PRIOR TO THE LAYING OF ITEM 411-01.10.ADJUSTMENT IS TO BE INCLUDED IN ITEM 411-01.10

### GRADING

THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF CITY-OWNED'R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

## HANDICAP RAMPS

- PAYMENT FOR HANDICAP RAMPS SHALL BE PAID WHEN ASPHALT IS IN PLACE. ASPHALT MUST BE IN PLACE AT THE HANDICAP RAMP WITHIN TWO (2) WEEKS OF RAMP INSTALLATION.
- (25) ALL EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE SAW CUT AND REMOVED FOR CURB RAMP CONSTRUCTION.
- THE CONTRACTOR SHALL NOT INCREASE PRICE DUE TO SPECIAL PROVISION REGARDING PRICE ADJUSTMENT FOR BITUMINOUS MATERIAL
- CONSTRUCTION OF HANDICAP RAMPS SHALL CONFORM TO CITY OF MEMPHIS STANDARDS AND STANDARD CONSTRUCTION SPECIFICATIONS.

- CONTACT A.D.A. COORDINATOR AT (901)576-6907 PRIOR TO POURING CONCRETE FOR CURB RAMPS
- PROVIDE 48 INCHES DISTANCE BETWEEN POLE AND ANY EDGE OF WHEEL (29)CHAIR RAMPS

#### SIGNALIZATION

- THE CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS TRAFFIC DEPARTMENT (901-576-6710) AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION
- LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF LEVELING COURSE IS PROVIDED.
- LOOPS SHALL BE REPLACED IN ACCORDANCE WITH THE ORIGINAL RECORD DRAWINGS OR AS DIRECTED BT THE CITY INSPECTOR.
- ALL CONSTRUCTION FOR SIGNALIZATION AND SIGNALIZATION EQUIPMENT SHALL CONFORM TO CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS.

#### **EROSION CONTROL**

- ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OF DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC.

#### TRAFFIC CONTROL

- SEE PAGE 65-7 OF THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR HEIGHT AND LATERAL LOCATION
- THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REGARDING TEMPORARY TRAFFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
- CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (901-636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (901-576-6710) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS
- SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL
- ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE (42)MAINTAINED AT ALL TIMES
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES, PRIVATELY OWNED. VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS THIRTY (30) FEET SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM



PROJECT NO.

009 ARRA-STP-M-9409(149

TYPE YEAR

> CITY OF HENDING DIVISION OF PUBLIC WORKS

GENERAL

ARRA GROUP 4 (PART 4 OF 4)

EXCEED 100 FEET.

GREATER

WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS

b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a. PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2.000 FEET WITH A MINIMUM OF 2 SIGNS PER

EXPOSED AREA. WHERE LINEVEN PAVEMENT IS

c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE

ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF

THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS ANDOR.
PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARGARAPH A REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZOME NOT EXCREDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

TYPE YEAR PROJECT NO. SHEET NO.

RESURF. 2009 ARRA-STP-M-9409(149) 5



CITY OF MEMPING DIVISION OF PUBLIC WORKS BUREAU OF ENGINEERING

GENERAL NOTES